CW#32: Area/Perimeter Triangles  
Geometry

October 27th, 2015

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

|  |  |
| --- | --- |
| 1. Use the coordinate grid to the right to complete the following.   1. Plot the points A(−3, 4), B(4, 4), C(–3, −2), and D(4, −2). Then connect them to create a rectangle. 2. Find the area of rectangle *ABCD*. 3. Draw a diagonal line connecting vertices A and D to create ∆ACD. 4. What is the area of ∆ACD? Explain how you found your answer. | |
| 2. Find the area of each triangle below. Show all work.  a.http://textbooks.cpm.org/images/ccg/chap02/2-70e.png b.http://textbooks.cpm.org/images/ccg/chap02/2-70f.png  c. James claimed that he did not need to calculate the area for part (b) in problem 2‑70 because it must be the same as the area for the triangle in part (a). Is James’s claim correct?  How do you know? | |
| 3. How do you know which dimensions to use when finding the area of a triangle? | |
| 4. First circle the numbers that represent the base and height of each triangle. Then find the area of each triangle.    (a)Macintosh HD:Users:jholcomb:Desktop:Screen Shot 2015-09-29 at 5.38.41 PM.png (b)Macintosh HD:Users:jholcomb:Desktop:Screen Shot 2015-09-29 at 5.39.04 PM.png | |
| 4. (cont.) First circle the numbers that represent the base and height of each triangle. Then find the area of each triangle.  (c)Macintosh HD:Users:jholcomb:Desktop:Screen Shot 2015-09-29 at 5.39.16 PM.png (d)http://textbooks.cpm.org/images/ccg/chap06/6-56.png | |
| 5. What is the base and height of the triangle below?    Base: \_\_\_\_\_ Height: \_\_\_\_\_\_ | 6. What is the base and height of the triangle below?    Base: \_\_\_\_\_ Height: \_\_\_\_\_\_ |
| 7. Find the perimeter and area of the triangle below:    Perimeter: \_\_\_\_\_\_\_ Area: \_\_\_\_\_\_\_ | 8. Find the perimeter and area of the triangle below:    Perimeter: \_\_\_\_\_\_\_ Area: \_\_\_\_\_\_\_ |
| 9. Find the area of the triangle below:    Area: \_\_\_\_\_\_\_ | 10. Find the area of the triangle below:    Area: \_\_\_\_\_\_\_ |
| 11. Find the base in the triangle below: | 12. Find the height in the triangle below: |

Exit ticket:

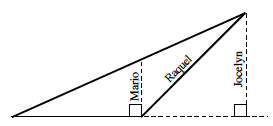
|  |  |
| --- | --- |
| 1. The area of the triangle below is 25 square units. Write an equation and then solve for *h*.  http://textbooks.cpm.org/images/ccg/chap03/3-109.png | 2. Find the area of each shape below. If a portion is shaded, only find the area of the region. Show all work.  (a)    (b)  116 |

Exit ticket:

|  |  |
| --- | --- |
| 1. The area of the triangle below is 25 square units. Write an equation and then solve for *h*.  http://textbooks.cpm.org/images/ccg/chap03/3-109.png | 2. Find the area of each shape below. If a portion is shaded, only find the area of the region. Show all work.  (a)    (b)  116 |

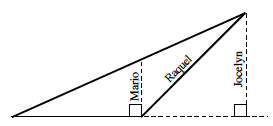
Do Now:

1. Mario, Raquel, and Jocelyn are arguing about where the height is for the triangle below.  The three have written their names along the part they think should be the height.  Determine which person is correct.  Explain why the one you chose is correct and why the other two are incorrect.



Do Now:

1. Mario, Raquel, and Jocelyn are arguing about where the height is for the triangle below.  The three have written their names along the part they think should be the height.  Determine which person is correct.  Explain why the one you chose is correct and why the other two are incorrect.



Do Now:

1. Mario, Raquel, and Jocelyn are arguing about where the height is for the triangle below.  The three have written their names along the part they think should be the height.  Determine which person is correct.  Explain why the one you chose is correct and why the other two are incorrect.

